



The CyberSentinel

Commissioner's Cache

An AWESOME CyberPatriot V has drawn to a close. Congratulations on a great season! The season ended with a spectacular National Finals Competition, with our top teams coming from Virginia and Texas, and with our generous Presenting Sponsor Northrop Grumman awarding yet another \$50,000 in scholarships. Thank you Northrop Grumman! There were many firsts in CyberPatriot V: The first use of CCS, the first Consolation Round, the first state awards, and the first (of what we hope is many) Cisco Networking Event. Our Coaches and Mentors took the competition to the next level, and now it's time to begin CyberPatriot VI. Over 500 teams have already registered for next year's competition, and as I write this the Exhibition Round is underway. Is your team registered? If not, get on board what we promise will be an even bigger and better CP-VI! As always, if you have any questions please contact the CyberPatriot Program Office. We are here for YOU!



Bernard K. Skoch
Commissioner
CyberPatriot Program
Air Force Association

Program Office Bits

CyberPatriot VI Coach Registration is Open!

Go to: www.uscyberpatriot.org

- **Northrop Grumman Internships**— See the link below:
<http://careers.northropgrumman.com/cyberpatriot.html>
- **CP-VI competition dates** will be published in May.
- **New to CyberPatriot** or want to see what it's all about? Check out our Exhibition Round **April 22nd through May 1st!**



The All Service Division Competitors enter the competition area to kick off The National Finals Competition.

Chantilly Academy and Marine Military Academy Crowned Champions at The CyberPatriot V National Finals Competition

On March 15, 2013, fourteen All Service Division teams, twelve Open Division teams, and two Canadian teams competed in The CyberPatriot V National Finals Competition. For four-and-a-half hours, Competitors uncovered digital forensics codes, physically cabled networks, and defended against hostile cyber attacks.

Competition was fierce and there were outstanding performances from every team in the competition, but in the end only one team from each division could come out on top. Team VOID from Chantilly Academy beat out the 418 other

Open Division teams that originally registered and took home the President's Cup.

In the All Service Division, out of 806 original registrants, the Devil Dogs from Marine Military Academy in Harlingen, Texas, won the Commander-in-Chief's Cup.

Each Competitor on the winning teams won \$2,000 scholarships for their college education from Northrop Grumman.

The Network Security portion of the competition was powered by SAIC's CyberNEXS and featured a Red Team that attacked the Competitors' computer systems. Teams were faced with harden-

ing the security protections on 10 operating systems and simultaneously mitigating the impact of Red Team attacks on each system.

The Digital Forensics event took place concurrently with the Network Security event. During this portion, teams were tasked with decrypting and decoding Forensics Challenges to find secret alphanumeric keys.

New to the competition this year was the Networking Event, powered by Cisco, in which teams physically wired and virtually configured a network using Cisco's Packet Tracer software.

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Cisco Event Puts Teams' Network Administration Skills to the Test

The CyberPatriot V National Finals Competition added a new component this year: the Cisco Networking Event. Unlike the Network Security and Digital Forensics Events, which focus on hardening a computer's software defenses, the Networking Event tested Competitors' abilities to configure and secure the hardware for a viable network. CyberPatriot worked in conjunction with Cisco Systems, a leading networking technology provider, to create a challenging



Cisco Systems Engineer Steve Gyurindak supervises Teams during the Cisco Networking Event. (Courtesy Cindy DeCarlo)

representation of real-world network administration tasks.

The Cisco Networking Event was split into three segments. Competitors were asked to devise their own strategy for completing these challenges, just as they would need to do in a real-world situation.

First, the students displayed their knowledge of IP Address subnetting. They determined IP address-

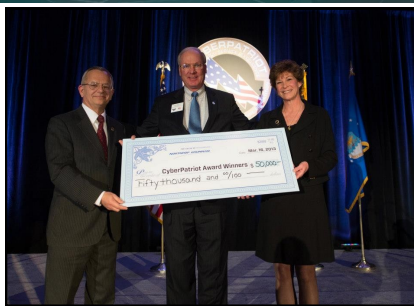
ing strategies aimed at meeting the demands of a network design provided by Cisco engineers.

Second, the students physically wired a network based the same network design. This process involved manually connecting different colored cables into the correct ports on a router and switch provided by Cisco Systems Engineer Steve Gyurindak. This portion of the networking event provided a completely different experience from the rest of the competition, as the Competitors were able to show off their technical skills while not focused completely on a computer monitor.

The final segment of the Networking Event was network configuration, in which Competitors used Cisco's Packet Tracer program to complete the implementation of a virtual network. This software allowed Competitors to visualize and configure a network without access to physical pieces of hardware and gave them the ability to test and troubleshoot their designs.

The Competitors certainly enjoyed the Networking Event at The National Finals Competition. It would not have been possible without the hard work and technical expertise of Steve Gyurindak and his Cisco team.

Right: Youngstown Civil Air Patrol team members install cables in the Cisco Networking Event.



Diane Miller (Northrop Grumman) presents a \$50,000 scholarship check to AFA President Craig McKinley & CyberPatriot Commissioner Bernie Skoch.



Students from Palos Verdes High School compete in the Network Security Event.

Coaches' Corner

- **CyberPatriot VI Coach Registration.** CyberPatriot VI Coach Registration began on April 1, 2013. Coaches must be registered and cleared before their teams may register. Go to: www.uscyberpatriot.org to register.
- **Coaches' Online Meeting.** Meetings were held online this month to discuss the Exhibition Round and broad details about CyberPatriot VI. Slides from this online meeting can be found at www.uscyberpatriot.org.

CyberPatriot V National Finals Competition Awards

All Service Division Overall Awards

Commander-in-Chief's Cup: Marine Military Academy - Harlingen, TX
Runner-Up: Montachusett Regional Vocational Technical School - Fitchburg, MA
3rd Place: La Cueva High School - Albuquerque, NM

Open Division Overall Awards

President's Cup: Chantilly Academy - Chantilly, VA
Runner-Up: Marshall Academy (Simeon) - Falls Church, VA
3rd Place: Marshall Academy (Carpenter) - Falls Church, VA

Networking Event Awards

All Service Division: Big Sioux Composite Squadron - Brookings, SD
Open Division: Summit Technology Academy - Lee's Summit, MO

Top Service Awards

Army JROTC: Leilehua High School - Wahiawa, HI
Navy JROTC: Flour Bluff High School - Corpus Christi, TX
Marine Corps JROTC: Marine Military Academy - Harlingen, TX
Air Force JROTC: John Jay High School - San Antonio, TX
Civil Air Patrol: Colorado Springs Cadet Squadron - Colorado Springs, CO
Naval Sea Cadets: Valor Division - Gardendale, AL

International Exhibition

Sisler High School (Red and Black Teams) - Winnipeg, Manitoba, Canada

The CyberSentinel

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Spotlight on Texas: A Tale of Two Cities



San Antonio Chamber and Local Businesses Help Send CyberPatriot Champions to The National Finals Competition

The Greater San Antonio Chamber of Commerce

(San Antonio, TX) -- The John Jay High School Air Force JROTC CyberPatriot team, which took first place in their division at The CyberPatriot V National Finals Competition, almost didn't make it to Washington, DC, to compete last month due to sequestration budget cuts. But when local businesses and The Greater San Antonio Chamber of Commerce heard they could be forced to forfeit their trip, they pooled together \$17,000 to cover travel expenses, helping the students make school history.

"Without this assistance, John Jay would have been staying home. The experience of attending The National Finals was tremendous for our cadets," said JROTC Coach, retired USAF Colonel John Lopardi.



The John Jay High School Air Force JROTC team at the CyberPatriot V National Finals Competition. The team received the top Air Force JROTC Award.

The John Jay team was one of four San Antonio teams that qualified for and competed in The CyberPatriot V National Finals Competition. The other local schools that qualified from San Antonio were Alamo Academies Information Security Academy Team 2 from New Braunfels High School, East Central High School Army JROTC, and Medina Valley High School Air Force JROTC.

"The cybersecurity industry and all of San Antonio are extremely proud of all of the teams that competed this past week in the CyberPatriot National Finals," said Bill Mock, Executive Vice President of The Chamber. "This is the future workforce in a key industry. You do not hear much about our city's dominance in training in cybersecurity, but these students will help get the word out."

The five companies that made contributions to the John Jay High School CyberPatriot team included Boeing, Alamo Chapter of the Armed Forces Communications and Electronics Association, Delta Risk, MainNerve, and The Greater San Antonio Chamber of Commerce.



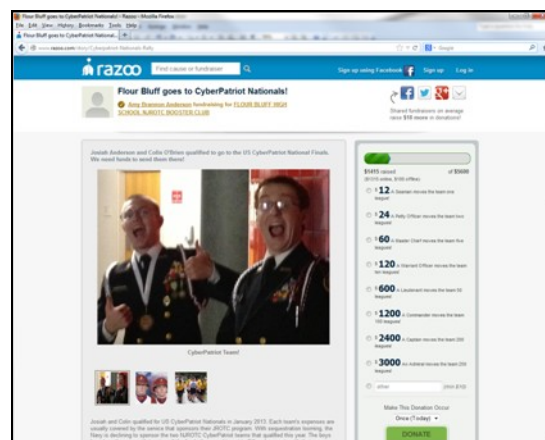
Without the generous financial support from the San Antonio Chamber of Commerce (logo seen here), the John Jay Air Force ROTC team would have been unable to attend The National Finals Competition.

Flour Bluff NJROTC Team Makes it to Washington, DC through Fundraiser, Media Campaign

With one month to go before The National Finals Competition, the Navy JROTC team from Flour Bluff High School received disheartening news: Due to sequestration, the Navy was no longer able to pay for their trip to Washington, DC. Determined to compete, the two-man team decided to go directly to their local community in Corpus Christi, Texas, to reach their fund-raising goal.

Their first step was to enlist the help of Amy Anderson, the mother of Competitor Josiah Anderson, to set up a page on the website Razoo for donations. The students took things from there, posting messages on social media websites, including Facebook, Twitter, and Reddit, to spread their message and gain support from as wide an audience as possible. They were even able to use traditional media sources by booking a spot on a local news channel and using that forum to ask for donations from the community.

Response to the Flour Bluff campaign was strong. As the money came in, the team's Coach, Commander Armando Solis, managed the funds and tracked how close the team was towards their goal. The Navy JROTC cadets eventually did make it to DC, and it was a good thing they did — they won the top Navy Junior ROTC honors at The National Finals Competition.



The Flour Bluff team used Razoo, an online fundraising tool, to raise money for their trip to The CyberPatriot V National Finals Competition.





CyberPatriot V, Open Division Champions: Chantilly Academy—Chantilly, VA. The team members received the President's Cup and a combined \$10,000 scholarship check from the Northrop Grumman Foundation.



CyberPatriot V, All Service Division Champions: Marine Military Academy—Harlingen, TX. The team members received the Commander-in-Chief's Cup and a combined \$10,000 scholarship check from the Northrop Grumman Foundation.



CyberPatriot V National Finals (Cont'd)

(Continued from Page 1)

In addition to the two champions, Competitors on the second and third place teams in each division were awarded college scholarships worth \$1,500 and \$1,000 respectively. More than \$50,000 in college scholarships was given in total by the Northrop Grumman Foundation, the CyberPatriot presenting sponsor.

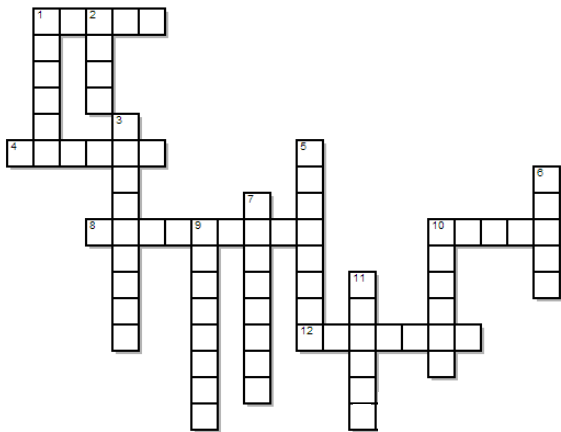
This Month in Cyber History

On April 2nd, 1980, Microsoft announced the creation of its first hardware product, the Z80 SoftCard. The SoftCard was a micro-processor printed on a circuit board that allowed Apple II computers to run a completely different operating system. Despite accounting for half of Microsoft's revenue in the mid-1980s, the SoftCard was discontinued just six years later.

(Source: www.computerhistory.org)

For more information go to:
<http://www.computerhistory.org/tidih/>

Crossword Puzzle



ACROSS

- 1 The CyberPatriot Commissioner
- 4 VMware Player plays these
- 8 Digital _____ Event
- 10 All-Service Champ's state
- 12 CyberPatriot Presenting Sponsor (Part 2)

DOWN

- 1 CyberPatriot Competition
- 2 Not All Service
- 3 Malware that records a user's keystrokes
- 5 Email fraud attempt
- 6 Creator of Packet Tracer
- 7 Prevents unauthorized access to a system
- 9 CyberPatriot Presenting Sponsor (Part 1)
- 10 Malware with a hidden backdoor function
- 11 Popular Linux operating system



SAIC, CIAS, Cisco and other sponsors ensure that The National Finals Competition systems run smoothly.



The President's and Commander-in-Chief's Cups loom over Competitors at The CyberPatriot V National Finals.

Presenting Sponsor



Founding Partners



Cyber Gold



Cyber Silver

Cyber Silver

